



## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### Food and Drug Administration

[Docket No. FDA-2020-D-1298]

#### **Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment; Guidance for Industry; Availability**

**AGENCY:** Food and Drug Administration, Department of Health and Human Services (HHS).

**ACTION:** Notice of availability.

**SUMMARY:** The Food and Drug Administration (FDA or Agency) is announcing the availability of a final guidance for industry entitled “Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment.” This guidance is intended to assist sponsors in the clinical development of drugs and biological products for the treatment of acute myeloid leukemia (AML). This guidance addresses FDA’s current thinking regarding the overall development program and clinical trial designs for the development of drugs and biological products to support an indication of treatment of AML, including indications limited to an individual phase of treatment (for example, maintenance, transplantation preparative regimen, etc.). The guidance addresses the topics of general drug development, efficacy endpoints, and exploratory and confirmatory trial considerations for AML drug development. In addition, the guidance addresses investigational new drug applications, new drug applications, and biologics licensing applications for AML drugs. This guidance finalizes the draft guidance of the same title “Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment” issued August 2020.

**DATES:** The announcement of the guidance is published in the *Federal Register* on [INSERT DATE OF PUBLICATION IN THE *FEDERAL REGISTER*].

**ADDRESSES:** You may submit either electronic or written comments on Agency guidances at any time as follows:

### *Electronic Submissions*

Submit electronic comments in the following way:

- Federal eRulemaking Portal: <https://www.regulations.gov>. Follow the instructions for submitting comments. Comments submitted electronically, including attachments, to <https://www.regulations.gov> will be posted to the docket unchanged. Because your comment will be made public, you are solely responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be posted, such as medical information, your or anyone else's Social Security number, or confidential business information, such as a manufacturing process. Please note that if you include your name, contact information, or other information that identifies you in the body of your comments, that information will be posted on <https://www.regulations.gov>.
- If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission and in the manner detailed (see "Written/Paper Submissions" and "Instructions").

### *Written/Paper Submissions*

Submit written/paper submissions as follows:

- Mail/Hand delivery/Courier (for written/paper submissions): Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852.
- For written/paper comments submitted to the Dockets Management Staff, FDA will post your comment, as well as any attachments, except for information submitted, marked and identified, as confidential, if submitted as detailed in "Instructions."

*Instructions:* All submissions received must include the Docket No. FDA-2020-D-1298 for "Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment."

Received comments will be placed in the docket and, except for those submitted as "Confidential

Submissions,” publicly viewable at <https://www.regulations.gov> or at the Dockets Management Staff between 9 a.m. and 4 p.m., Monday through Friday, 240-402-7500.

- Confidential Submissions--To submit a comment with confidential information that you do not wish to be made publicly available, submit your comments only as a written/paper submission. You should submit two copies total. One copy will include the information you claim to be confidential with a heading or cover note that states “THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION.” The Agency will review this copy, including the claimed confidential information, in its consideration of comments. The second copy, which will have the claimed confidential information redacted/blacked out, will be available for public viewing and posted on <https://www.regulations.gov>. Submit both copies to the Dockets Management Staff. If you do not wish your name and contact information to be made publicly available, you can provide this information on the cover sheet and not in the body of your comments and you must identify this information as “confidential.” Any information marked as “confidential” will not be disclosed except in accordance with 21 CFR 10.20 and other applicable disclosure law. For more information about FDA’s posting of comments to public dockets, see 80 FR 56469, September 18, 2015, or access the information at:  
<https://www.govinfo.gov/content/pkg/FR-2015-09-18/pdf/2015-23389.pdf>.

*Docket:* For access to the docket to read background documents or the electronic and written/paper comments received, go to <https://www.regulations.gov> and insert the docket number, found in brackets in the heading of this document, into the “Search” box and follow the prompts and/or go to the Dockets Management Staff, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852, 240-402-7500.

You may submit comments on any guidance at any time (see 21 CFR 10.115(g)(5)).

Submit written requests for single copies of this guidance to the Division of Drug Information, Center for Drug Evaluation and Research, Food and Drug Administration, 10001

New Hampshire Ave., Hillandale Building, 4th Floor, Silver Spring, MD 20993-0002 or Office of Communication, Outreach and Development, Center for Biologics Evaluation and Research, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 71, Rm. 3128, Silver Spring, MD 20993-0002. Send one self-addressed adhesive label to assist that office in processing your requests. See the **SUPPLEMENTARY INFORMATION** section for electronic access to the guidance document.

**FOR FURTHER INFORMATION CONTACT:** Donna Przepiorka, Center for Drug Evaluation and Research, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 22, Rm. 2116, Silver Spring, MD 20993-0002, 301-796-5358; Stephen Ripley, Center for Biologics Evaluation and Research, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 71, Rm. 7301, Silver Spring, MD 20993-0002, 240-402-7911.

**SUPPLEMENTARY INFORMATION:**

I. Background

FDA is announcing the availability of a guidance for industry entitled “Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment.” This guidance is intended to assist sponsors in the clinical development of drugs and biological products for the treatment of AML. This guidance includes FDA’s current thinking regarding the overall development program and clinical trial designs to support an indication of treatment of AML, including indications limited to an individual phase of treatment.

New classes of drugs are being developed as alternatives to the standard cytotoxic drugs for the treatment of AML. The following factors contribute substantially to the complexity of clinical development programs for such new drugs: the expansion of treatment intent, broadening of the intended population, and development of a wide range of new drug classes as alternatives to cytotoxic drugs. This guidance includes FDA’s thinking regarding general drug development considerations, efficacy endpoints, exploratory and confirmatory trial

considerations, and regulatory submissions for AML drugs to facilitate the development of new drugs for the treatment of AML.

This guidance finalizes the draft guidance entitled “Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment” issued August 13, 2020 (85 FR 49383). FDA considered comments received on the draft guidance as the guidance was finalized. Changes from the draft to the final guidance include editorial changes, clarifications of the time frame for marrow sampling and peripheral blood tests to establish complete remission, the inclusion of marker-negative patients in studies of targeted therapies, and recommended operating characteristics for safety-stopping rules.

This guidance is being issued consistent with FDA’s good guidance practices regulation (21 CFR 10.115). The guidance represents the current thinking of FDA on “Acute Myeloid Leukemia: Developing Drugs and Biological Products for Treatment.” It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations.

## II. Paperwork Reduction Act of 1995

While this guidance contains no collection of information, it does refer to previously approved FDA collections of information. Therefore, clearance by the Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3501-3521) is not required for this guidance. The previously approved collections of information are subject to review by OMB under the PRA. The collections of information in 21 CFR 312 have been approved under OMB control number 0910-0014; the collections of information in 21 CFR part 314 have been approved under OMB control number 0910-0001; the collections of information in 21 CFR part 601 have been approved under 0910-0338; and the collections of information in 21 CFR 201.56 and 201.57 have been approved under OMB control number 0910-0572.

## III. Electronic Access

Persons with access to the internet may obtain the guidance at  
<https://www.fda.gov/regulatory-information/search-fda-guidance-documents>,  
<https://www.fda.gov/vaccines-blood-biologics/guidance-compliance-regulatory-information-biologics/biologics-guidances>, or <https://www.regulations.gov>.

Dated: October 11, 2022.

Lauren K. Roth,

Associate Commissioner for Policy.

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